Measurements of Middle Atmospheric Ozone by the ATMOS Experiment

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important step in validating the analysis procedures adopted by files with those from other experiments have been made as an iment obtained vertical profile measurements of ozone during the The Atmospheric Trace Molecule Spectroscopy ATN OS) Experthis experiment. Spatial and temporal coincidences between AT atmosphere sufficiently to systematically bias measurements of the middle atmosphere and altering the transmission of the inients: introducing unusual perturbations in the composition in 1991 represent a two-fold problem for remote sensing experlar, the stratospheric acrosols from the Mt. Pinatubo erruption for a realistic comparison of results and methods. In particua different spectral region and different retrieval methods allows infrared limb spectra and comparisons with methods that utilize provide a useful comparison. ATMOS profiles are obtained from MOS observations and measurements made by other experiments 1) shuttle mission in 1992. Comparisons of ATMOS ozone pro Atmospheric Laboratory for Science and Applications (ATLAS

and indicate the essential robustness and compatibility of infrared that is introduced in the definition of a coincident measurement ences appear to reflect the variability present in the atmosphere niques, when large differences were noticed. The residual differvisible, and ultraviolet measurements of ozone. The comparison has led to some revision in the analysis tech-

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